

SEQUENCE LISTING

<110> Vlaams Interuniversitair Instituut voor Biotechnol
 <120> Novel internal ribosome entry site, vector containing same a
 nd the uses thereof
 <130> 2676-4976US
 <150> 99200216.2
 <151> 1999-01-26
 <160> 51
 <170> PatentIn version 3.1
 <210> 1
 <211> 222
 <212> DNA
 <213> Homo sapiens
 <400> 1
 gacatcagcg acagcgagag gaagaccagc tcggccgagt cctcgtcagc agaatcaggc
 60
 tcaggttctg aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagt
 120
 gaagaatcag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa ctctgaggag
 180
 gcatcagagc agtctgccga agaagtaagt gaggaagaaa tg
 222
 <210> 2
 <211> 222
 <212> RNA
 <213> Homo sapiens
 <400> 2
 gacaucagcg acagcgagag gaagaccagc ucggccgagu ccucgucagc agaaucaggc
 60
 ucagguucug aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagu
 120
 gaagaaucag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa cucugaggag

180

gcaucagagc agucugccga agaaguaagu gaggaagaaa ug
222

<210> 3
<211> 2471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (906)..(1128)
<223> The IRES-activity containing sequence

<220>
<221> misc_feature
<222> (1)..(2471)
<223> PITSLRE protein kinase (p110pitslre) (isoform alfa2-2)

<400> 3
atacaggaag tgacgatact tttggcgcg cggttgctg tttcttctct ggctccggga
60

ccggcgggcg cggcggcggc acgggcggcg gcgtaggggtg ttttaactca aatgggtgat
120

gaaaaggact cttggaaagt gaaaacttta gatgaaattc ttcaggaaaa gaaacgaagg
180

aaggaacaag aggagaaagc agagataaaa cgcttaaaaa attctgatga ccggggattcc
240

aagcgggatt cccttgagga gggggagctg agagatcact gcatggagat cacaataagg
300

aactccccgt atagaagaga agactctatg gaagacagag gagaagaaga tgattctttg
360

gccatcaaac caccacagca aatgtctcgg aaagaaaaag ttcacacag aaaagatgaa
420

aagagaaaag agaaaaagca tgctagagtg aagaagaaag aaagagagca cgaacgtcgg
480

aaacgacatc gagaagaaca ggataaagct cgccgggaat gggaaagaca gaagagaagg
540

gaaatggcaa gggagcattc caggagagaa agggggaatg atggcgtgtg cctcttcagg
600

gaccgcttgg agcagttaga aaggaagcgg gagcgggagc gcaagatgcg ggagcagcag
660

aaggagcagc gggagcagaa ggagcgcgag cggcgggagg aggagcggcg caaggagcgg
720

gaggcccgca ggggaagtgtc tgcacatcac cgaacgatga gagaggacta cagcgacaaa
780

gtgaaagcca gccactggag tcgcagcccg cctcggccgc cgcgggagcg gttcgagttg
840

ggagacggcc ggaagccagt aaaagaagag aaaatggaag aaagggacct gctgtccgac
900

ttacaggaca tcagcgacag cgagaggaag accagctcgg ccgagtcctc gtcagcagaa
960

tcaggctcag gttctgagga agaagaggag gaggaggaag aggaggagga ggaagggagc
1020

accagtgaag aatcagagga ggaagaggaa gaggaggagg aggagaccgg cagcaactct
1080

gaggaggcat cagagcagtc tgccgaagaa gtaagtgagg aagaaatgag tgaagatgaa
1140

gaacgagaaa atgaaaacca cctcttggtt gttccagagt cacggttcga ccgagattcc
1200

ggggagagtg aagaagcaga ggaagaagtg ggtgaggga cggcgagag cagcgccctg
1260

acagagggcg actatgtgcc cgactcccct gccctgtcgc ccatcgagct caagcaggag
1320

ctgcccaagt acctgccggc cctgcagggc tgccggagcg tcgaggagtt ccagtgcttg
1380

aacaggatcg aggagggcac ctatggagtg gtctacagag caaaagacaa gaaaacagat
1440

gaaattgtgg ctctaaagcg gctgaagatg gagaaggaga aggagggctt cccgatcacg
1500

tcgctgaggg agatcaacac catcctcaag gccagcatc ccaacatcgt caccgttaga
1560

gagattgtgg tgggcagcaa catggacaag atctacatcg tgatgaacta tgtggagcac
1620

gacctcaaga gcctgatgga gaccatgaaa cagcccttcc tgccagggga ggtgaagacc
1680

ctgatgatcc agctgctgcg tggggtgaaa cacctgcacg acaactggat cctgcaccgt
1740

gacctcaaga cgtccaacct gctgctgagc cagcccgga tcctcaaggt gggtgacttc
1800

gggctggcgc gggagtacgg atccctctg aaggcctaca cccggctcgt ggtgaccctg
1860

tggtaccgcg cccagagct gctgcttggg gccaaaggaat actccacggc cgtggacatg
1920

tggtcagtgg gttgcatctt cggggagctg ctgactcaga agcctctgtt ccccggaag
1980

tcagaaatcg atcagatcaa caaggtgttc aaggatctgg ggaccctag tgagaaaatc
2040

tggcccggct acagcgagct cccagcagtc aagaagatga ccttcagcag acaccctac
2100

aacaacctcc gcaagcgctt cggggctctg ctctcagacc agggcttcga cctcatgaac
2160

aagttcctga cctacttccc cgggaggagg atcagcgctg aggacggcct caagcatgag
2220

tatttccgcg agacccccct ccccatcgac ccctccatgt tccccacgtg gcccgccaag
2280

agcgagcagc agcgtgtgaa gcggggcacc agcccaggc cccctgaggg aggcctgggc
2340

tacagccagc tgggtgacga cgacctgaag gagacgggct tccaccttac caccacgaac
2400

cagggggcct ctgccgcggg ccccggttc agcctcaagt tctgaaggtc agagtggacc
2460

ccgtcatggg g
2471

<210> 4
<211> 30
<212> DNA
<213> Homo sapiens

<400> 4
gacatcagcg acagcgagag gaagaccagc
30

<210> 5
<211> 468
<212> DNA
<213> Homo sapiens

<400> 5
cacgaacgtc ggaaacgaca tcgagaagaa caggataaag ctgccggga atgggaaaga
60

cagaagagaa gggaaatggc aaggagcat tccaggagag aaagggggaa tgatggcgtg
120

tgctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg
180

cgggagcagc agaaggagca gcgggagcag aaggagcgcg agcggcgggc ggaggagcgg
240

cgcaaggagc gggaggcccg cagggaagtg tctgcacatc accgaacgat gagagaggac
300

tacagcgaca aagtgaaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag
360

cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaaatgga agaaagggac
420

ctgctgtccg acttacagga catcagcgac agcgagagga agaccagc
468

<210> 6
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 6
 cacgaacgtc ggaaacgaca tcgagaagaa caggataaag ctcgccggga atgggaaaga
 60

cagaagagaa gggaaatggc aaggagcat tccaggagag aaagggggaa tgatggcgtg
 120

tgctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg
 180

cgggagcagc agaaggagca gcgggagcag aaggagcgcg agcggcgggc ggaggagcgg
 240

cgcaaggagc gggaggcccg caggaagtg tctgcacatc accgaacgat gagagaggac
 300

tacagcgaca aagtgaaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag
 360

cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaaatgga agaaagggac
 420

ctgctgtccg acttacagga catcagcgac agcgagagga agaccagctc ggccgagtcc
 480

tcgtcagcag aatcaggctc aggttctgag gaagaagagg aggaggagga agaggaggag
 540

gaggaaggga gcaccagtga agaatacagag gaggaagagg aagaggagga ggaggagacc
 600

ggcagcaact ctgaggaggc atcagagcag tctgccgaag aagtaagtga ggaagaaatg
 660

<210> 7
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 5' primer

<400> 7
 tgctctagag gaattcgaag tgacgatact tttggcgc
 38

<210> 8
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 3' primer

<400> 8
 tgctctagac caagcttcac gtccatcaag ccgacctcag aa
 42

<210> 9
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> in frame NotI

<400> 9
 agcctcaagt tcgcggccgc agagtggacc
 30

<210> 10
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 10
 gaggaagaag cgagtgaaga t
 21

<210> 11
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
<223> primer

<400> 11
gacagcgaga aagaccagct cg
22

<210> 12
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> 5'-end primer

<400> 12
ctagtctaga aaagtgaaaa ctttagatga aattc
35

<210> 13
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> 3'-end primer

<400> 13
tgcatgccat ggatgtcggt tccgacgttc gtgc
34

<210> 14
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> 3'-end primer

<400> 14
tgcatgccat ggtcctctct catcggttcgg tgatg
35

<210> 15
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> 5'-end primer

<400> 15
gcacgaacgt cggaaacgac atctagacta g
31

<210> 16
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> 5'-end primer antisense

<400> 16
catgccatgg tcttcctctc gctgtcgctg atgtc
35

<210> 17
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> 5'-end primer sense

<400> 17
ctagtctaga catcaccgaa cgatgagaga gg
32

<210> 18
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> 5'-end primer sense

<400> 18

gacatcagcg acagcgagag gaagaccagc tctagactag
40

<210> 19
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> double-stranded oligonucleotide

<400> 19
cgcgtggcga gatttttcagg agtcac
26

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> double-stranded oligonucleotide

<400> 20
tcgagtgact cctgaaaatc tcgcca
26

<210> 21
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> E-tag probe

<400> 21
acgcggttcc agcggatccg gatacggctc cggcgcacct
40

<210> 22
<211> 8
<212> RNA
<213> Artificial Sequence

<220>

<223> primer

<400> 22

crccaugg

8

<210> 23

<211> 9

<212> RNA

<213> Artificial Sequence

<220>

<223> primer

<400> 23

cucaaaugg

9

<210> 24

<211> 9

<212> RNA

<213> Artificial Sequence

<220>

<223> primer

<400> 24

gggugauga

9

<210> 25

<211> 9

<212> RNA

<213> Artificial Sequence

<220>

<223> primer

<400> 25

uuuagauga

9

<210> 26

<211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 26
 uucugauga
 9

<210> 27
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 27
 acugcaugg
 9

<210> 28
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 28
 acucuaugg
 9

<210> 29
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 29
 agaagauga

9

<210> 30
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 30
 agcaaaugu
 9

<210> 31
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 31
 aaaagauga
 9

<210> 32
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 32
 aaagcaugc
 9

<210> 33
 <211> 9
 <212> RNA
 <213> Artificial Sequence

<220>

<223> primer

<400> 33
cgggaaugg
9

<210> 34
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 34
gggaaaugg
9

<210> 35
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 35
ggggaauga
9

<210> 36
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 36
gaaugaugg
9

<210> 37
<211> 9

<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 37
gcaagaugc
9

<210> 38
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 38
gaacgauga
9

<210> 39
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 39
agaaaaugg
9

<210> 40
<211> 9
<212> RNA
<213> Artificial Sequence

<220>
<223> primer

<400> 40
aagaaauga
9

<210> 41
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 41
tgaccggaat tcatgggtga tgaaaaggac tcttgg
36

<210> 42
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 42
tgaccggaat tctgaccttc agaacttgag gctgaagcc
39

<210> 43
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 43
agcctcaagt tcgcggccgc agagtggacc
30

<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 44
gaggaagaag cgagtgaaga t
21

<210> 45
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 45
gacagcgaga aagaccagct cg
22

<210> 46
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 46
ttcttcatct tcacccatgg cttcctcact tac
33

<210> 47
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 47
ctagtctaga gcacgaacgt cggaaacgac a
31

<210> 48
<211> 40
<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 48

ctagtctaga gacatcagcg acagcgagag gaagaccagc
40

<210> 49

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 49

ccatcgatag aacctgagcc tgattctgct gacga
35

<210> 50

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 50

ccatcgatac cggcagcaac tctgaggagg catc
34

<210> 51

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 51

ttcttcatct tcacccatgg cttcctcact tac
33

